

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|---|----------------------|---------------------|------------------|
| 10/677,764 | 10/02/2003 | Xiang-Dong Mi | 01333 | 9128 |
| Thomas H. Clo | 10/02/2003 7590 11/02/2007 ose, taff k Company | | EXAMINER | |
| Thomas H. Close, Patent Legal Staff Eastman Kodak Company | | DHARIA, PRABODH M | | |
| 343 State Stree | | | ART UNIT | PAPER NUMBER |
| Rochester, NY | 14650-2201 | | 2629 | |
| | | | | |
| | • | | MAIL DATE | DELIVERY MODE |
| | | | 11/02/2007 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | | Application No. | Applicant(s) | | | |
|--|--|--|--|--|--|--|
| Office Action Summary | | 10/677,764 | MI, XIANG-DONG | | | |
| | | Examiner | Art Unit | | | |
| | - | Prabodh M. Dharia | 2629 | | | |
| | The MAILING DATE of this communication ap | | | | | |
| Period fo | • • | | | | | |
| WHIC - Exte after - If NC - Failu Any | ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING Designs of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. Of period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b). | OATE OF THIS COMMUNIC 136(a). In no event, however, may a re will apply and will expire SIX (6) MONT e, cause the application to become ABA | CATION. Sply be timely filed ITHS from the mailing date of this communication. ANDONED (35 U.S.C. § 133). | | | |
| Status | • | | | | | |
| 1)[\] | Responsive to communication(s) filed on 24 S | September 2007. | | | | |
| 2a) <u></u> ☐ | This action is FINAL . 2b)⊠ Thi | s action is non-final. | | | | |
| 3)[|] Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | |
| - | closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | |
| Disposit | ion of Claims | | | | | |
| 4)⊠ | Claim(s) 1-12 is/are pending in the application | ٦. | | | | |
| | 4a) Of the above claim(s) is/are withdra | awn from consideration. | | | | |
| | Claim(s) is/are allowed. | | | | | |
| | 6)⊠ Claim(s) <u>1-12</u> is/are rejected. | | | | | |
| '= | 7) Claim(s) is/are objected to. | | | | | |
| 8)[_] | Claim(s) are subject to restriction and/ | or election requirement. | | | | |
| Applicat | ion Papers | | | | | |
| 9)[| The specification is objected to by the Examin | er. | | | | |
| 10)⊠ The drawing(s) filed on <u>24 September 2007</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner. | | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | |
| 44)[7] | Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | |
| 11)[| The oath or declaration is objected to by the E | xaminer. Note the attached | TOTICE ACTION OF FORM PTO-152. | | | |
| Priority | under 35 U.S.C. § 119 | | | | | |
| • | 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: | | | | | |
| · | 1. Certified copies of the priority documents have been received. | | | | | |
| | 2. Certified copies of the priority documents have been received in Application No | | | | | |
| | 3. Copies of the certified copies of the pri | | received in this National Stage | | | |
| | application from the International Burea | | | | | |
| * | See the attached detailed Office action for a lis | it of the certified copies not | received. | | | |
| Attachme | nt(s) | | | | | |
| | ce of References Cited (PTO-892) | | Summary (PTO-413) s)/Mail Date | | | |
| 3) 🔲 Info | ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date | | nformal Patent Application | | | |

Art Unit: 2629

1. <u>Status:</u> Please all replies and correspondence should be addressed to examiner's new art unit 2629. Receipt is acknowledged of papers submitted on 09-24-2007 under request for reconsideration, which have been placed of record in the file. Claims 1-12 are pending in this action.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huang, Xiao-Yang et al. (US 2005/0083284 A1) in view of Amundson; Karl R.et al. (US 2006/0232531 A1).

Regarding Claim 1, Huang, Xiao-Yang teaches a method of driving an active matrix cholesteric liquid crystal display (page 3, paragraph 36, Lines 1-5, and abstract discloses a bistable display is a cholesteric display) that includes a matrix of data and select lines and an array of pixels connected to the data and select lines through active switching elements (page 3, paragraph 36, Lines 1-5, page 6, paragraph 6, Lines 1-5, see figure 6), a pixel being capable of producing two or more gray levels (page 6, paragraph 68 on the right side Lines 1-6), comprising: a) providing a select voltage and a plurality of data voltages (page 6, paragraph 70,

Art Unit: 2629

Lines 1-6); and b) during a pixel writing cycle, applying the select voltage and the data voltages to the select (page 6, paragraph 70, Lines 1-6, page 7, paragraph 82) and controlling the duty cycles of the pixel voltage levels to determine the gray levels of the pixels (please see figure 5a, page 5, paragraph 57,58, page 5, paragraph 53, Lines 5-8, gray scale is represented by amplitude modulation, page 6, paragraphs 70,71 and also teaches gray scale is implemented with determination of driving voltage, pulse width, and frame rate control (duty cycle)), and wherein the average voltage applied to a pixel during the pixel writing cycle is zero (please see figure 5a, page 5, paragraph 57,58, where average voltage per cycle e.g. ((+30) +(-30v)/2 =0), zero).

However, Huang, Xiao-Yang fails to disclose specifically data lines of the display to produce only three pixel voltage levels 0, +U and -U, having respective duty cycles.

However, Amundson; Karl R.et al. discloses a bi-stable LCD display (please see abstract), and a driver for applying a select voltage (page 7, paragraph 72, Lines 7-9) and one of a plurality of data voltages to the select and data lines of the display to produce only three pixel voltage levels O, +U and -U (page 7, paragraph 72,73 where R the reference voltage is zero voltage, page 10, paragraph 143) having respective duty cycles and controlling the duty cycles of the pixel voltage levels to determine the gray levels of the pixels (page 7, paragraphs 72,73, page 10, paragraph 143, please see figures 12A-12E, 25-32, page 42, paragraphs 531,532, page 44, claim text 25) and wherein the average voltage applied to a pixel during the pixel writing cycle is zero (page 10, paragraphs 143,144, page 19, paragraphs 262,266, page 6, paragraph 44).

The reason to combine is to be able to achieve fine control of gray levels using drivers with only a small set of available voltages, as well as to achieve the fine tuning necessary for acceptable display performance and to achieve fine control of gray levels of an impulse driven

Art Unit: 2629

imaging medium without the need for fine voltage control; also an active matrix display that has source drivers that can output three voltages (page 6, paragraph 42).

Thus it would have been obvious to one in the ordinary skill in the art at the time of invention was made to incorporate the teaching of Amundson; Karl R et al. in the teaching of. Huang, Xiao-Yang to be able to have fine control of gray levels using drivers with only a small set of available voltages, as well as to achieve the fine tuning necessary for acceptable display performance (page 6, paragraph 42).

Regarding Claim 2, Huang, Xiao-Yang teaches the data voltage levels consist of a zero voltage and a non-zero voltage U (please see figure 5a, page 5, paragraph 57,58, whereon off state zero voltage and on state is non-zero voltage).

Amundson; Karl R.et al. discloses a bi-stable LCD display (please see abstract), and a driver for applying a select voltage (page 7, paragraph 72, Lines 7-9) and one of a plurality of data voltages to the select and data lines of the display to produce only three pixel voltage levels O, +U and –U (page 7, paragraph 72,73 where R the reference voltage is zero voltage, page 10, paragraph 143) having respective duty cycles and controlling the duty cycles of the pixel voltage levels to determine the gray levels of the pixels (page 7, paragraphs 72,73, page 10, paragraph 143, please see figures 12A-12E, 25-32, page 42, paragraphs 531,532, page 44, claim text 25) and wherein the average voltage applied to a pixel during the pixel writing cycle is zero (page 10, paragraphs 143,144, page 19, paragraphs 262,266, page 6, paragraph 44).

Art Unit: 2629

Regarding Claim 3, Huang, Xiao-Yang teaches the active matrix liquid crystal display further includes a common electrode connected to all of the pixels, and further comprising the step of applying the zero voltage to the common electrode (please see figure 5a, page 5, paragraph 57,58, teaches pixel is driven to zero voltage, two electrodes are inheritant to a pixel, one connected to data side and second to maintain appropriate voltage across pixel a common electrode) and the voltage U to the data line to generate the pixel voltage U, and applying the voltage U to the common electrode and the voltage to the data line to generate the pixel voltage – U (please see figure 5a, page 5, paragraph 57,58, where average voltage per cycle e.g. ((+30) +(-30v)/2 =0), zero).

Amundson; Karl R.et al. discloses a bi-stable LCD display (please see abstract), and a driver for applying a select voltage (page 7, paragraph 72, Lines 7-9) and the active matrix liquid crystal display further includes a common electrode connected to all of the pixels, and further comprising the step of applying the zero voltage to the common electrode and the voltage U to the data line to generate the pixel voltage U, and applying the voltage U to the common electrode and the voltage to the data line to generate the pixel voltage –U (page 7, paragraph 72,73, please see figures 12A-12E, 25-32, page 42, paragraphs 531,532, page 44, claim text 25, page 10, paragraphs 143,144, page 19, paragraphs 258,262,266, page 20, paragraph 272, page 6, paragraph 44, page 17, paragraph 235, page 29, paragraph 356).

Regarding Claim 4, Huang, Xiao-Yang teaches the data voltage levels consist of a zero voltage and two non-zero voltages +U and -U (please see figure 5a, page 5, paragraph 57,58, where average voltage per cycle e.g. ((+30) + (-30v)/2 = 0), zero).

Art Unit: 2629

Amundson; Karl R.et al. discloses a bi-stable LCD display (please see abstract), and a driver for applying a select voltage (page 7, paragraph 72, Lines 7-9) and one of a plurality of data voltages to the select and data lines of the display to produce only three pixel voltage levels O, +U and -U (page 7, paragraph 72,73, please see figures 12A-12E, 25-32, page 42, paragraphs 531,532, page 44, claim text 25, page 10, paragraphs 143,144, page 19, paragraphs 258,262,266, page 20, paragraph 272, page 6, paragraph 44, page 17, paragraph 235, page 29, paragraph 356).

Regarding Claim 5, Huang, Xiao-Yang teaches the active matrix liquid crystal display further includes a common electrode connected to all of the pixels (please see figure 5a, page 5, paragraph 57,58, teaches pixel is driven to zero voltage, two electrodes are inheritant to a pixel, one connected to data side and second to maintain appropriate voltage across pixel a common electrode), and further comprising the step of applying the zero voltage to the common electrode (please see figure 5a, page 5, paragraph 57,58, where average voltage per cycle e.g. ((+30) +(-30v)/2 =0), zero).

Amundson; Karl R.et al. discloses a bi-stable LCD display (please see abstract), and a driver for applying a select voltage (page 7, paragraph 72, Lines 7-9) and the active matrix liquid crystal display further includes a common electrode connected to all of the pixels, and further comprising the step of applying the zero voltage to the common electrode (page 7, paragraph 72,73, please see figures 12A-12E, 25-32, page 42, paragraphs 531,532, page 44, claim text 25, page 10, paragraphs 143,144, page 19, paragraphs 258,262,266, page 20, paragraph 272, page 6, paragraph 44, page 17, paragraph 235, page 29, paragraph 356).

Art Unit: 2629

Regarding Claim 6, Huang, Xiao-Yang teaches a pixel writing cycle (page 6, paragraph 70, Lines 1-6, page 7, paragraph 82) a) a selection portion wherein a non zero pixel voltage is applied to any pixels in the display whose state is to be changed (please see figure 5a, page 5, paragraph 57,58); and b) a duty cycle portion wherein the duty cycle of the non zero pixel voltages are determined (please see figure 5a, page 5, paragraph 57,58, gray scale is represented by amplitude modulation, page 6, paragraphs 70,71 and also teaches gray scale is implemented with determination of driving voltage, pulse width, and frame rate control (duty cycle)).

Amundson; Karl R.et al. discloses a bi-stable LCD display (please see abstract), and a driver for applying a select voltage (page 7, paragraph 72, Lines 7-9) and the driver drives the pixels during a pixel writing cycle that includes: a) a selection portion wherein a non zero pixel voltage is applied to any pixels in the display whose state is to be changed; and b) a duty cycle portion wherein the duty cycle of the non zero pixel voltages are determined (page 7, paragraph 72,73, please see figures 12A-12E, 25-32, page 42, paragraphs 531,532, page 44, claim text 25, page 10, paragraphs 143,144, page 19, paragraphs 258,262,266, page 20, paragraph 272, page 6, paragraph 44, page 17, paragraph 235, page 29, paragraph 356).

Regarding Claim 7, Huang, Xiao-Yang teaches a method of driving an active matrix cholesteric liquid crystal display (page 3, paragraph 36, Lines 1-5)) that includes a matrix of data and select lines and an array of pixels connected to the data and select lines through active switching elements (page 3, paragraph 36, Lines 1-5, page 6, paragraph 6, Lines 1-5, see figure 6), a pixel being capable of producing two or more gray levels (page 6, paragraph 68 on the right side Lines 1-6), comprising: a) providing a select voltage and a plurality of data voltages (page 6,

Art Unit: 2629

paragraph 70, Lines 1-6); and b) during a pixel writing cycle, applying the select voltage and the data voltages to the select (page 6, paragraph 70, Lines 1-6, page 7, paragraph 82) and data lines of the display to produce only three pixel voltage levels 0, +U and -U, having respective duty cycles (please see figure 5a, page 5, paragraph 57,58) and controlling the duty cycles of the pixel voltage levels to determine the gray levels of the pixels (please see figure 5a, page 5, paragraph 57,58, page 5, paragraph 53, Lines 5-8, gray scale is represented by amplitude modulation, page 6, paragraphs 70,71 and also teaches gray scale is implemented with determination of driving voltage, pulse width, and frame rate control (duty cycle)), and wherein the average voltage applied to a pixel during the pixel writing cycle is zero (please see figure 5a, page 5, paragraph 57,58, where average voltage per cycle e.g. ((+30) +(-30v)/2 =0), zero).

However, Huang, Xiao-Yang fails to disclose specifically (c)data lines of the display to produce only three pixel voltage levels 0, +U and -U, having respective duty cycles.

However, Amundson; Karl R.et al. discloses a bi-stable LCD display (please see abstract), and (c) a driver for applying a select voltage (page 7, paragraph 72, Lines 7-9) and one of a plurality of data voltages to the select and data lines of the display to produce only three pixel voltage levels O, +U and -U (page 7, paragraph 72,73 where R the reference voltage is zero voltage, page 10, paragraph 143) having respective duty cycles and controlling the duty cycles of the pixel voltage levels to determine the gray levels of the pixels (page 7, paragraphs 72,73, page 10, paragraph 143, please see figures 12A-12E, 25-32, page 42, paragraphs 531,532, page 44, claim text 25) and wherein the average voltage applied to a pixel during the pixel writing cycle is zero (page 10, paragraphs 143,144, page 19, paragraphs 262,266, page 6, paragraph 44).

Art Unit: 2629

The reason to combine is to be able to achieve fine control of gray levels using drivers with only a small set of available voltages, as well as to achieve the fine tuning necessary for acceptable display performance and to achieve fine control of gray levels of an impulse driven imaging medium without the need for fine voltage control; also an active matrix display that has source drivers that can output three voltages (page 6, paragraph 42).

Thus it would have been obvious to one in the ordinary skill in the art at the time of invention was made to incorporate the teaching of Amundson; Karl R et al. in the teaching of. Huang, Xiao-Yang to be able to have fine control of gray levels using drivers with only a small set of available voltages, as well as to achieve the fine tuning necessary for acceptable display performance (page 6, paragraph 42).

Regarding Claim 8, Huang, Xiao-Yang teaches the data voltage levels consist of a zero voltage and a non-zero voltage U U (please see figure 5a, page 5, paragraph 57,58, where average voltage per cycle e.g. ((+30) + (-30v)/2 = 0), zero).

Amundson; Karl R.et al. discloses a bi-stable LCD display (please see abstract), and a driver for applying a select voltage (page 7, paragraph 72, Lines 7-9) and one of a plurality of data voltages to the select and data lines of the display to produce only three pixel voltage levels O, +U and -U (page 7, paragraph 72,73, please see figures 12A-12E, 25-32, page 42, paragraphs 531,532, page 44, claim text 25, page 10, paragraphs 143,144, page 19, paragraphs 258,262,266, page 20, paragraph 272, page 6, paragraph 44, page 17, paragraph 235, page 29, paragraph 356).

Art Unit: 2629

Regarding Claim 9, Huang, Xiao-Yang teaches the active matrix liquid crystal display further includes a common electrode connected to all of the pixels, and further comprising the step of applying the zero voltage to the common electrode (please see figure 5a, page 5, paragraph 57,58, teaches pixel is driven to zero voltage, two electrodes are inheritant to a pixel, one connected to data side and second to maintain appropriate voltage across pixel a common electrode) and the voltage U to the data line to generate the pixel voltage U, and applying the voltage U to the common electrode and the voltage to the data line to generate the pixel voltage – U (please see figure 5a, page 5, paragraph 57,58, where average voltage per cycle e.g. ((+30) +(-30v)/2 =0), zero).

Amundson; Karl R.et al. discloses a bi-stable LCD display (please see abstract), and a driver for applying a select voltage (page 7, paragraph 72, Lines 7-9) and the active matrix liquid crystal display further includes a common electrode connected to all of the pixels, and further comprising the step of applying the zero voltage to the common electrode and the voltage U to the data line to generate the pixel voltage U, and applying the voltage U to the common electrode and the voltage to the data line to generate the pixel voltage –U (page 7, paragraph 72,73, please see figures 12A-12E, 25-32, page 42, paragraphs 531,532, page 44, claim text 25, page 10, paragraphs 143,144, page 19, paragraphs 258,262,266, page 20, paragraph 272, page 6, paragraph 44, page 17, paragraph 235, page 29, paragraph 356).

Regarding Claim 10, Huang, Xiao-Yang teaches the data voltage levels consist of a zero voltage and two non-zero voltages +U and -U (please see figure 5a, page 5, paragraph 57,58, where average voltage per cycle e.g. ((+30) + (-30v)/2 = 0), zero).

Art Unit: 2629

Amundson; Karl R.et al. discloses a bi-stable LCD display (please see abstract), and a driver for applying a select voltage (page 7, paragraph 72, Lines 7-9) and one of a plurality of data voltages to the select and data lines of the display to produce only three pixel voltage levels O, +U and -U (page 7, paragraph 72,73, please see figures 12A-12E, 25-32, page 42, paragraphs 531,532, page 44, claim text 25, page 10, paragraphs 143,144, page 19, paragraphs 258,262,266, page 20, paragraph 272, page 6, paragraph 44, page 17, paragraph 235, page 29, paragraph 356).

Regarding Claim 11, Huang, Xiao-Yang teaches the active matrix liquid crystal display further includes a common electrode connected to all of the pixels (please see figure 5a, page 5, paragraph 57,58, teaches pixel is driven to zero voltage, two electrodes are inheritant to a pixel, one connected to data side and second to maintain appropriate voltage across pixel a common electrode), and further comprising the step of applying the zero voltage to the common electrode (please see figure 5a, page 5, paragraph 57,58, where average voltage per cycle e.g. ((+30) +(-30v)/2 =0), zero).

Amundson; Karl R.et al. discloses a bi-stable LCD display (please see abstract), and a driver for applying a select voltage (page 7, paragraph 72, Lines 7-9) and the active matrix liquid crystal display further includes a common electrode connected to all of the pixels, and further comprising the step of applying the zero voltage to the common electrode (page 7, paragraph 72,73, please see figures 12A-12E, 25-32, page 42, paragraphs 531,532, page 44, claim text 25, page 10, paragraphs 143,144, page 19, paragraphs 258,262,266, page 20, paragraph 272, page 6, paragraph 44, page 17, paragraph 235, page 29, paragraph 356).

Art Unit: 2629

Regarding Claim 12, Huang, Xiao-Yang teaches a pixel writing cycle (page 6, paragraph 70, Lines 1-6, page 7, paragraph 82) a) a selection portion wherein a non zero pixel voltage is applied to any pixels in the display whose state is to be changed (please see figure 5a, page 5, paragraph 57,58); and b) a duty cycle portion wherein the duty cycle of the non zero pixel voltages are determined (please see figure 5a, page 5, paragraph 57,58, gray scale is represented by amplitude modulation, page 6, paragraphs 70,71 and also teaches gray scale is implemented with determination of driving voltage, pulse width, and frame rate control (duty cycle)).

Amundson; Karl R.et al. discloses a bi-stable LCD display (please see abstract), and a driver for applying a select voltage (page 7, paragraph 72, Lines 7-9) and the driver drives the pixels during a pixel writing cycle that includes: a) a selection portion wherein a non zero pixel voltage is applied to any pixels in the display whose state is to be changed; and b) a duty cycle portion wherein the duty cycle of the non zero pixel voltages are determined. (page 7, paragraph 72,73, please see figures 12A-12E, 25-32, page 42, paragraphs 531,532, page 44, claim text 25, page 10, paragraphs 143,144, page 19, paragraphs 258,262,266, page 20, paragraph 272, page 6, paragraph 44, page 17, paragraph 235, page 29, paragraph 356).

Response to Arguments

4. Applicant's arguments, see remark, filed 09-24-2007, with respect to the rejection(s) of claim(s) 1-12 under Huang, Xiao-Yang et al. (US 2005/0083284 A1) in view of Lee Sang Kon (US7,164,406 B2) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made

Art Unit: 2629

Huang, Xiao-Yang et al. (US 2005/0083284 A1) in view of Amundson; Karl R. et al. (US 20060232531 A1).

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Zehner; Robert W. et al. (US 2006/0139311 A1) METHODS FOR DRIVING BISTABLE ELECTRO-OPTIC DISPLAYS, AND APPARATUS FOR USE THEREIN.

- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prabodh M. Dharia whose telephone number is 571-272-7668. The examiner can normally be reached on M-F 8AM to 5PM.
- 7. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

Art Unit: 2629

like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Prabodh Dharia

Full Signatory Authority Program

AU 2629

October 28, 2007